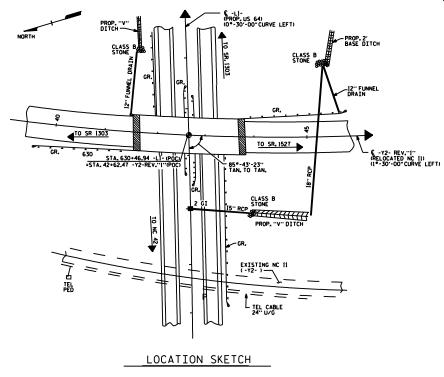
ORAWN BY 1 _ CHECKED BY 1

DATE :

TOTAL DILL OF MATERIAL															
TOTAL BILL OF MATERIAL															
	FOUNDATION EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	45" PRESTRESSED CONCRETE GIRDERS		HP 12 X 53 STEEL PILES		CONCRETE BARRIER RAIL	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS	EVAZOTE JOINT SEAL
	CU.YDS.	SO.FT.	SO.FT.	CU.YDS.	LUMP SUM	LBS.	LBS.	NO.	LIN.FT.	NO.	LIN.FT.	LIN,FT.	SO.YDS.	LUMP SUM	LUMP SUM
SUPERSTRUCTURE		14,409	14,742		LUMP SUM			36	1,702.41			383.82		LUMP SUM	LUMP SUM
END BENT 1				58.6		8,533				12	900		496		
BENT 1	145			92.0		13,755	3,187			35	1,925				
BENT 2	105			85.8		14,171	2,275			30	1,800				
BENT 3	152			91.1		13,552	2,083			35	1.925				
END BENT 2				58.7		8,241				12	960		471		
TOTAL	402	14,409	14,742	386.2	LUMP SUM	58,252	7,545	36	1,702,41	124	7,510	383.82	967	LUMP SUM	LUMP SUM

B.M.=18 RR SPIKE IN BASE OF POWER POLE 16' RT. OF STA. 35+67 -Y2-EL.70.44



NOTES:

ASSUMED LIVE LOAD = HS 20 OR ALTERNATE LOADING, EXCEPT THAT GIRDERS HAVE BEEN DESIGNED FOR HS25.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

THIS BRIDGE HAS BEEN DESIGNED BY STRENGTH DESIGN METHOD AS SPECIFIED IN AASHTO STANDARD SPECIFICATIONS.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

DRIVE PILES AT END BENTS AND BENTS TO A REQUIRED BEARING CAPACITY OF 50 TONS PER PILE. THE REQUIRED BEARING CAPACITY IS EQUAL TO THE ALLOWABLE BEARING CAPACITY WITH A MINIMUM FACTOR OF SAFETY OF TWO.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR SEISUIC DESIGN OF HIGHMAY BRIDGES FOR SEISMIC PERFORMANCE CATEGORY A.

THE CONTRACTOR SHALL OBSERVE A 3 MONTH WAITING PERIOD BEFORE BEGINNING ANY WORK FOR END BENT CONSTRUCTION AFTER COMPLETION OF THE EMBANMENT AT EACH END BENT, NO OTHER WAITING PERIOD WILL BE REQUIRED FOR THE APPROACH SLAB CONSTRUCTION AT BOTH END BENTS.

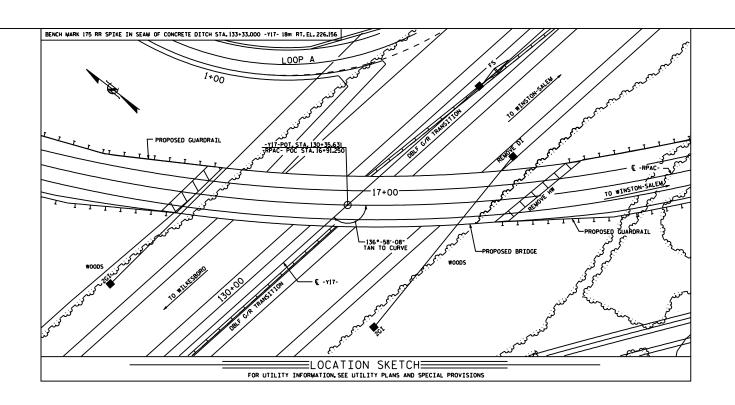
FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

PROJECT NO. EXAMPLE COUNTY STATION: SHEET 4 OF 4 STATE OF HORTH CARD, INA
DEPARTMENT OF TRANSPORTATION
HALLIGH GENERAL DRAWING BRIDGE OVER PROPOSED US 64 ON RELOCATED NC 11 BETWEEN NC 42 & SR.1303 REVISIONS 90. BT: DATE: NO. BY: DATE:

STR. •3



F.A. PROJECT IM-421-1(CA)3

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ALL ELEVATIONS ARE IN METERS.

ASSUMED LIVE LOAD = MS 18 OR ALTERNATE LOADING.
FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SNSM.

THIS BRIDGE HAS BEEN DESIGNED BY STRENGTH DESIGN METHOD AS SPECIFIED IN AASHTO SPECIFICATIONS.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

PILES FOR END BENTS & BENTS SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 450 KN EACH.

FOR FALSEWORK AND FORMS OVER OR ADJACENT TO TRAFFIC, SEE SPECIAL PROVISIONS.

TRAFFIC, SEE SPECIAL PROVISIONS.
FOR METRIC STRUCTURAL STEEL, SEE SPECIAL PROVISIONS.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HICHWAY BRIDGES FOR SEISMIC PERFORMANCE CATEGORY A.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS, FOR PROJECTS REQUISITION UP TO 360,000 kg OF REINFORCING STEEL, ONE 760mm SAMPLE OF EACH SIZE BAR USED, AND FOR PRODUCTS REQUISITING OVER 360,000 kg OF REINFORCING SIELL, TWO 760mm SAMPLES OF EACH SIZE BAR USED, AND FOR PROJECTS REQUISITING OVER 360,000 kg OF THE SIZE BAR USED, THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LECTOR OF

-	TOTAL BILL OF MATERIAL														
	FOUNDATION EXCAVATION FOR BENTS	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	PRE	600mm STRESSED NCRETE IRDERS	HP STE	310 x 79 EL PILES	CONCRETE BARRIER RAIL	100mm SLOPE PROTECTION	ELASTOMERIC BEARINGS	EVAZOTE JOINT SEALS
	LUMP SUM	SO. METERS	SO. METERS	CU. METERS	LUMP SUM	kg	kg	NO.	METERS	NO.	METERS	METERS	SO. METERS	LUMP SUM	LUMP SUM
SUPERSTRUCTURE		1242.9	1072.3		LUMP SUM			20	447.982			184.804		LUMP SUM	LUMP SUM
END BENT 1				50.5		3908				12	204		351		
BENT 1	LUMP SUM			99.7		8467	965			24	336				
BENT 2	LUMP SUM			115.2		9970	1406			40	640				
BENT 3	LUMP SUM			121.2		10221	1447			32	352				
END BENT 2				72.8		5079				19	314		739		
TOTAL	LUMP SUM	1242.9	1072.3	459.4	LUMP SUM	37645	3818	20	447.982	127	1846	184.804	1090	LUMP SUM	LUMP SUM

PROJECT NO. EXAMPLE

_____ COUNTY

STATION:

SHEET 4 OF 4

STATE OF HORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEION

GENERAL DRAWING

BRIDGE ON RAMP AC OVER US 421 BETWEEN YADKINVILLE AND WINSTON SALEM

SHEET NO.	WEAT2TON2												
	DATE:	BYs	ж0.	DATEs	BTs	ē,							
TOTAL SMEETS			T3			1							
			741			2							

ORANN BY 1 _____ DATE 1 _____ DATE 1 ____